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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
09/864,134	05/24/2001	Joachim Opitz	PHDE 000085	1105
24737 7:	590 09/10/2003			
PHILIPS INTELLECTUAL PROPERTY & STANDARDS			EXAMINER	
P.O. BOX 3001 BRIARCLIFF	I MANOR, NY 10510		HARPER, HOLLY R	
			ART UNIT	PAPER NUMBER
			2879	

DATE MAILED: 09/10/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

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,		Application No.	Applicant(s)
Office Action Summary		09/864,134	OPITZ ET AL.
		Examiner	Art Unit
		Holly R. Harper	2879
<i>۲۱</i> Period for R	ne MAILING DATE of this communication app aply	pears on the cover sheet with the c	correspondence address
THE MAII  - Extensions after SIX (iii)  - If the periois find periodis	TENED STATUTORY PERIOD FOR REPL'LING DATE OF THIS COMMUNICATION.  If of time may be available under the provisions of 37 CFR 1.1 of time may be available under the provisions of 37 CFR 1.1 of the communication.  If of or reply specified above is less than thirty (30) days, a reply of for reply is specified above, the maximum statutory period of the provision of the communication.  If of the provision is the communication of t	36(a). In no event, however, may a reply be tin y within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from , cause the application to become ABANDONE	nely filed s will be considered timely. the mailing date of this communication. D (35 U.S.C. § 133).
Status	penancivo to communication(s) filed on		
<u> </u>	esponsive to communication(s) filed on is action is <b>FINAL</b> . 2b) $\Box$ Th	— · is action is non-final.	
	nce this application is in condition for allowa		resocution as to the morits is
	sed in accordance with the practice under		
· <u> </u>	im(s) 1-5 is/are pending in the application.		
•	Of the above claim(s) is/are withdraw	wn from consideration.	magazini d
	im(s) is/are allowed.	•	
·	im(s) <u>1-5</u> is/are rejected.		
7)∐ Cla	im(s) is/are objected to.		1
8)□ Cla	im(s) are subject to restriction and/o	r election requirement.	
Application I	Papers		,
9) <u></u> The	specification is objected to by the Examine	r.	
•	drawing(s) filed on <u>24 May 2001</u> is/are: a)[2		
	oplicant may not request that any objection to the		
•	proposed drawing correction filed on		oved by the Examiner.
_	approved, corrected drawings are required in rep	·	
•	oath or declaration is objected to by the Ex	aminer.	
	er 35 U.S.C. §§ 119 and 120		) (I) (O
•	nowledgment is made of a claim for foreign	n priority under 35 U.S.C. § 119(a	1)-(a) or (t).
,—	II b)☐ Some * c)☐ None of:	a bassa basa sasaissad	
	Certified copies of the priority document		on No
	Certified copies of the priority document		
3. <u>□</u> * See t	Copies of the certified copies of the prior application from the International Bu the attached detailed Office action for a list	reau (PCT Rule 17.2(a)).	
14)∏ Ackn	owledgment is made of a claim for domesti	c priority under 35 U.S.C. § 119(e	e) (to a provisional application).
•	The translation of the foreign language proposed and the standard of the translation of t	• •	
Attachment(s)			
2) 🔲 Notice of [	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948) n Disclosure Statement(s) (PTO-1449) Paper No(s) _	5) Notice of Informal I	y (PTO-413) Paper No(s) Patent Application (PTO-152)
6. Patent and Tradema	ark Office		

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#### **DETAILED ACTION**

## Claim Rejections - 35 USC § 103

- 1. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 2. Claims 1-5 are rejected under 35 U.S.C. 103(a) as being unpatentable over Czeiler et al. (USPN 4,421,803) hereinafter "Czeiler" in view of Jansen et al. (USPN 5,766,336) hereinafter "Jansen".

In regard to claims 1-4, the Czeiler reference discloses an incandescent lamp with a coating on the inner walls of the bulbs (Column 5, Lines 45-46). The pigment contains titanium dioxide, a white pigment, (Column 5, Lines 29-30) and cadmium yellow (Column 5, Line 59). The Czeiler reference discloses a pigment containing cadmium, but does not disclose an oxide-nitride pigment. The Jansen reference teaches that cadmium based pigments used to color various articles can be replaced with an oxide-nitride pigment. The cadmium based pigments are known to release toxic constituents (Column 1, Lines 15-30). Jansen discloses general formulas for several oxide nitride pigments. The following constants are used for the formulas (Column 12, Lines 9-13 and Lines 27-30):

$$A = Mg, Ca, Sr, Ba$$

$$A$$
" = Ln, Bi

$$D = Al$$
,  $Ga$ ,  $In$ ,  $Ti$ ,  $V$ ,  $Cr$ ,  $Fe$ ,  $Co$ ,  $Ni$ 

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B = V, Nb, Ta

D'= Ti, Zr, Hf, Sn, Ge, Si, Nb, Ta

B'= Ti, Zr, Hf, Sn, Ge

The following general equations were disclosed:

 $A_{1-u}A'_{u}BO_{2-u}N_{1+u}$  where u is between 0 and 1 (Column 11, Lines 45, 57-58)

 $A_x A_{2-x}' B_2 O_{5+x} N_{2-x}$  where x is between 0 and less than 2 (Column 12, Line 1, 13-15)

 $A_2'B_{2-y}B_y'O_{5+y}N_{2-y}$  where y is between 0 and less than 2 (Column 12, Line 5, 13-15)

 $CD_{2-m}D_m'O_{4-m}N_m$  where m is between 0 and 2 (Column 11, Line 9, 21-22)

 $C_{1-n}C'_{n}D_{2}O_{4-n}N_{n}$  where n between 0 and 1 (Column 12, Line 24, 34-35)

 $A_2'CBO_5N$  (Column 11, Line 34)

 $A_{2}^{'}A^{''}BO_{4}N_{2}$  (Column 11, Line 36)

 $A_2DBO_3N_3$  (Column 11, Line 38)

Thus, it would have been obvious at the time the invention was made to a person having ordinary skills in the art to use a non-cadmium based pigment based on the general formulas, as taught by Jansen, to coat the inside of incandescent lamps.

In regard to claim 5, the Examiner notes that the claim limitation of "the pigment is electrostatically deposited on the inside of the light emitting bulb" is drawn to a process of manufacturing, which is incidental to the claimed apparatus. It is well established that a claimed apparatus cannot be distinguished over the prior art by a process limitation. Consequently, absent a showing of an unobvious difference between the claimed product and the prior art, the subject product-by-process claim limitation is not afforded patentable weight (see MPEP 2113).

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## Response to Arguments

Arguments are not found persuasive.

Regarding applicants claim that Czeiler in view of Jansen is not a workable combination, the Examiner respectfully disagrees. Czeiler states that the softening point of the glass matrix is lower than the softening point of the glass body and lower than the softening-point of the pigment. More preferred are glass matrices having a softening point about 80°C lower than the softening point of the glass-body-(Column 2, Lines 25-34). Most glass bodies used for light sources are made of soda lime. The softening point of that material is 726°C. Therefore, the coating would be baked at a temperature around 700°C.

Regarding applicants claim that Czeiler in view of Jansen that a glass matrix is not claimed by the applicant, the Examiner respectfully agrees. However, all of the limitations in the applicants claims are met by the combination of Czeiler in view of Jansen. There is no reason to exclude elements not specifically claimed as long as the claimed limitations are met.

Regarding the addition of claim 5, it is a product-by-process claim and has not been given patentable weight. Czeiler does mention the use of electrostatic coating in creating a coated glass envelope (Column 2, Lines 4-7).

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#### Contact Information

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Holly Harper whose telephone number is (703) 305-7908. The examiner can normally be reached on Monday-Friday from 8:30 AM to 5:00 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel, can be reached on (703) 305-4794. The fax phone number for the organization where this application or proceeding is assigned is (703) 308-7382.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (703)-308-0956.

Holly Harper Patent Examiner Art Unit 2879 NIMESHKUMAR D. PATEL
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2800